



Form PTO-1449

**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number (Optional)

(2541 FWC 4 DIV CIP CON 3)  
203-2716 FWC 4 DIV CIP CON 3

Application Number

10/730,826

Applicant

Eric R. Cosman

Filing Date

December 8, 2003

Group Art Number

TBD

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
RY	3,777,124	12/1973	Pavkovich			
	4,319,136	3/1982	Jinkins			
	4,463,758	8/1984	Patil et al.			
	4,535,782	8/1985	Zoltan			
	4,598,368	7/1986	Umemura			
	4,617,925	10/1986	Laitinen			
	4,618,978	10/1986	Cosman			
	4,653,509	3/1987	Oloff et al.			
	4,386,602	6/1983	Sheldon et al.			
	4,722,336	2/1988	Kim et al.			
	4,760,851	8/1988	Fraser et al.			
	4,761,072	8/1988	Pryor			
RY	4,782,239	11/1988	Hirose et al.			
	4,797,736	1/1989	Kloots et al.			
RY	4,826,487	5/1989	Winter			
	4,838,265	6/1989	Cosman			
RY	4,845,626	7/1989	Ohhashi			
	4,859,181	8/1989	Neumeyer			
RY	4,869,247	9/1989	Howard, III et al.			
	4,884,566	12/1989	Mountz et al.			
RY	4,941,164	7/1990	Schuller et al.			

Examiner

Date Considered

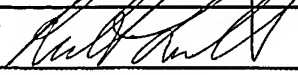
7/05

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	<b>Applicant</b> Eric R. Cosman		
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	5,056,523	10/1991	Hotchkiss, Jr. et al.			
	5,070,454	12/1991	Griffith			
	5,116,344	5/1992	Sundqvist			
	5,142,559	8/1992	Wielopolski et al.			
	5,147,372	9/1992	Nymark et al.			
	5,154,179	10/1992	Ratner			
	5,163,430	11/1992	Carol			
	5,165,410	11/1992	Warne et al.			
	5,178,146	1/1993	Giese			
	5,198,977	3/1993	Salb			
	5,222,499	6/1993	Allen et al.			
	5,230,623	7/1993	Guthrie et al.			
	5,233,990	8/1993	Barnea			
	5,247,555	9/1993	Moore et al.			
	5,257,998	11/1993	Ota et al.			
	5,260,871	11/1993	Goldberg			
	5,280,427	1/1994	Magnusson et al.			
BY	5,285,772	2/1994	Ratner			

<b>Examiner</b> 	<b>Date Considered</b> 2/05
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M	5,285,787	2/1994	Machida			
	5,295,483	3/1994	Nowacki et al.			
	5,307,807	5/1994	Valdès Sosa et al.			
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	5,354,314	10/1994	Hardy et al.			
	5,397,329	3/1995	Allen			
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RM	5,436,542	7/1995	Petelin et al.			
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RM	5,526,812	6/1996	Dumoulin et al.			
	5,588,430	12/1996	Bova et al.			
	5,622,187	4/1997	Carol			
	5,682,890	11/1997	Kormos et al.			
	5,776,064	7/1998	Kalfae et al.			
	5,778,043	7/1998	Cosman			
	5,792,146	8/1998	Cosman			
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	5,817,105	10/1998	Van Der Brug			
M	5,836,954	11/1998	Heilbrun et al.			

Examiner

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7/6/5

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### FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
KL	WO 88/09151 A1	12/1988	PCT				X
KL	WO 94/23647 A1	10/1994	PCT			X	
KL	WO 95/25475 A1	9/1995	PCT			X	
	WO 96/11624 A2	4/1996	PCT			X	

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KL	—	Lavallee, S. et al., "Computer Assisted Puncture", <i>Reconnaissance Des Formes et Intelligence Artificielle</i> , 6th Congres Exposition, vol. 1, Nov. 16-20, 1987.
KL	—	Fuchs, Henry et al., "Acquisition and Modeling of Human Body Form Data," <i>SPIE</i> , vol. 166, <i>Applications of Human Biosteriometrics (NATO)</i> (1978).
KL	—	Brown, Russell A., "A Stereotactic Head Frame for Use with CT Body Scanners", <i>Investigative Radiology</i> , vol. 14, No. 4, Jul.-Aug. 1979.
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						Yes	No
	WO 97/45064 A1	12/1997	PCT			X	
	WO 97/47240 A1	12/1997	PCT				X
KL	0 146 699 A1	7/1985	EP				X
	0 629 963 A2	12/1994	EP			X	
	0 672 389 A2	9/1995	EP			X	
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Examiner <i>R. H. Smith</i>	Date Considered <i>7/05</i>
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**U.S. PATENT DOCUMENTS**

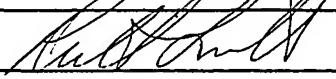
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						Yes	No
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14	2,094,590 A	9/1982	GB			X	
14	2,213,066 A	8/1989	GB			X	
14	2,809,645 A1	11/1978	DE				X
14	295 05 318 A1	5/1995	DE				X
14	297 04 393 U1	7/1997	DE				X
14	3508730 A1	9/1986	DE				X

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14	Lavallee, S. et al., "Computer Assisted Interventionist Imaging: The Instance of Stereotactic Brain Surgery", <i>Medinfo 89</i> , Part 1
14	Lemke, H.U. et al. (ed.), "Computer Assisted Radiology", <i>Proceedings of the International Symposium CAR '89</i> .
14	Lavallee, S., "A New System for Computer Assisted Neurosurgery", <i>IEEE Advanced Topics in Biorobotics, Engineering in Medicine and Biology Society 11th Annual International Conference</i> (1989).
14	Reinhardt, H.F., "Interactive Sonar-Operated Device for Stereotactic and Open Surgery", <i>Proceedings of the Xth Meeting of the World Society for Stereotactic and Functional Neurosurgery</i> , Maebashi, Japan, Oct. 1989 (1990).
14	Lavallee, Stephane and Cinquin, Philippe, "Computer Assisted Medical Interventions", <i>3D Imaging in Medicine</i> , NATO ASI Series, vol. F 60 (1990).

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		<b>Document Number</b>	<b>Date</b>	<b>Country</b>	<b>Class</b>	<b>Subclass</b>	<b>Translation</b>
							Yes    No
<b>OTHER DOCUMENTS</b>							
K/1		Mazier, B. et al., "Computer Assisted Vertebral Column Surgery: Application to the Spinal Pedicle Fixation", <i>Innov. Technol. Biol. Med.</i> , vol. 11, No. 5 (1990).					
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K/1		"3-D Digitizer Captures the World", <i>Byte</i> , p. 43, Oct. 1990.					
K/1		Watanabe, Eiju et al. "Three-Dimensional Digitizer (Neuronavigator): New Equipment for Computed Tomography-Guided Stereotaxic Surgery", <i>Surg. Neurol.</i> , pp. 543-547, No. 27, 1987.					
K/1		Reinhardt, H. et al., "A Computer-Assisted Device for the Intraoperative CT-Correlated Localization of Brain Tumors", <i>Eur. Surg. Res.</i> , pp. 51-58, No. 20, 1988.					

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Sheet 1 of 8

Form PTO 449

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**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
11/	3,821,469	6/1974	Whetsone et al.			
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	4,058,114	11/1977	Soldner			
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	4,182,312	1/1980	Mushabac			
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	4,358,856	11/1982	Stivender et al.			
	4,407,298	10/1983	Lentz et al.			
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	4,506,676	3/1985	Duska			
	4,571,834	2/1986	Fraser et al.			
	4,583,538	4/1986	Onik et al.			
	4,592,352	6/1986	Patil			
	4,602,622	7/1986	Bar et al.			
	4,608,977	9/1986	Brown			
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*[Signature]*

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ky	4,750,487	6/1988	Zanetti			
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*Ruth Smith*

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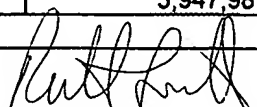
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	5,211,164	5/1993	Allen			
	5,224,049	6/1993	Mushabac			
	5,230,338	7/1993	Allen et al.			
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	5,305,203	4/1994	Raab			
	5,315,630	5/1994	Sturm et al.			
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	5,389,101	2/1995	Heilbrun et al.			
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<i>RL</i>	6,405,072	6/2002	Cosman			

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Examiner

*RL*

Date Considered

7/05

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

\* Did not receive any FOR or NPL.

<b>Form PTO-1449</b>  <b>INFORMATION DISCLOSURE CITATION</b>  <b>IN AN APPLICATION</b>  (Use several sheets if necessary)	<b>Docket Number (Optional)</b>		<b>Application Number</b>
	(2541 FWC 4 DIV CIP CON 3) 203-2716 FWC 4 DIV CIP CON 3		10/730,826
	<b>Applicant</b>		
	Eric R. Cosman		
<b>Filing Date</b>		<b>Group Art Number</b>	
December 8, 2003		TBD	

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							Yes	No

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<i>111</i>		Kosugi, Yukio, et al., "An Articulated Neurosurgical Navigation System Using MRI and CT Images", <i>IEEE Transactions on Biomedical Engineering</i> , vol. 35, No. 2, pp. 147-152 Feb. 1988 (article).
		Gonzalez, Rafael C., et al., "Stereo Imaging", <i>Digital Image Processing</i> , Second Edition, Addison-Wesley Publishing Company, Section 2.5.5, pp. 52-54 (Section from a Book).
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<b>Examiner</b> <i>Ruth Smith</i>	<b>Date Considered</b> 7/05
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	

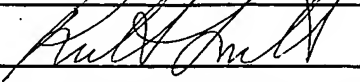
<b>Form PTO-1449</b>  <b>INFORMATION DISCLOSURE CITATION</b>  <b>IN AN APPLICATION</b>  (Use several sheets if necessary)	<b>Docket Number (Optional)</b> (2541 FWC 4 DIV CIP CON 3) 203-2716 FWC 4 DIV CIP CON 3		<b>Application Number</b> 10/730,826
	<b>Applicant</b> Eric R. Cosman		
	<b>Filing Date</b> December 8, 2003		<b>Group Art Number</b> TBD

### FOREIGN PATENT DOCUMENTS

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							Yes	No

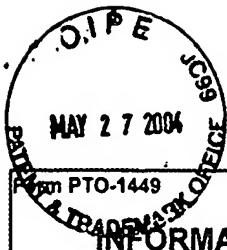
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<b>Examiner</b> 	<b>Date Considered</b> 7/05
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<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  (Use several sheets if necessary)	<b>Docket Number (Optional)</b> (2541 FWC 4 DIV CIP CON 3) 203-2716 FWC 4 DIV CIP CON 3	<b>Application Number</b> 10/730,826
	<b>Applicant</b> Eric R. Cosman	
	<b>Filing Date</b> December 8, 2003	<b>Group Art Number</b> TBD

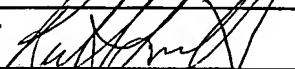
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Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
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						Yes	No
RU	WO 96/25098 A1	8/22/1996	PCT				
RU	WO 97/40766 A1	11/6/1997	PCT				

**OTHER DOCUMENTS**


<b>Examiner</b> 	<b>Date Considered</b> 7/05
<b>Examiner:</b> Initial if citation considered, whether or nor citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	